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Pillsbury With			PARAS JR	, PETER
Intellectual Prop	erty Group			
50 Fremont Stre	et		ART UNIT	PAPER NUMBER
San Francisco, CA 94105			1632	
			DATE MAILED: 12/19/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner   Peter Paras, Jr.		Application No.	Applicant(s)				
Peter Paras, Jr. 1632  Peter Paras, Jr. 1648  Peter Paras, Jr. 1652  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION.  Extentions do the many to a maintain of 3 CPR 1.136(a). In no evert, however, may a risply be timely filled to the peter of the reply in specified above is less than tilling (30) days, as reply within the databative printium of thirty (30) days, as reply within the databative printium of thirty (30) days, as well be considered finely.  If the period for reply a specified above is less than tilling (30) days, as reply within the databative printium of thirty (30) days, as well be considered finely.  If the period for reply a specified above is less than tilling (30) days, as reply within the databative printium of thirty (30) days, as well be considered finely.  If the period for reply a specified above is less than tilling (30) days, as reply within the databative printium of thirty (30) days, as well be considered finely.  If the period for reply a specified above is less than tilling (30) days, as reply within the databative printium of thirty (30) days will be considered finely.  If the period for reply a specified above is less than tilling (30) days and less place (30) MONTHS from the second of the communication.  If the period for reply appears to a day of the above claim (30) days and less place of the communication, even if timely fleet, and yield decrease and considered finely.  It is action is FINAL.  2 b) This action is FINAL.  2 b) This action is FINAL.  2 b) This action is non-flinal.  3 claim(s) 1-72 is/are pending in the application.  4a) Of the above claim(s) 1-30 and 56-70 is/are withdrawn from consideration.  4b) Claim(s) 1-72 is/are pending in the application.  4a) Claim(s) 1-72 is/are pending in the application.  4a) Claim(s) 1-72 is/are pending in the application.  4b) Claim(s) 1-75 is/are objected to by the Examiner.  1claim(s) 1-75 is/are objected to by the Examiner.  1claim(s) 1-75 is/are ob		09/804,409	KIEFFER ET AL.				
The MALING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION.  Lebestions of them may be available under the provisions of 32 CFR 1.136(a). In covernt, however, may a roply be timely filled  — the period for reply specified above its less than thirty (30) days, a reply withen the adelutory minimum of thirty (30) days, will be considered timely.  — If the period for reply specified above its less than thirty (30) days, a reply withen the adelutory minimum of thirty (30) days, will be considered timely.  — If NO period for reply specified above, the maximum abstratory provide unlargely and will expire 3.5(c) (MSMTPS from the mailing date of this communication.  — Fallows or reply within the set or extended particle in raply will, by statute, cause the application to become ABANDONED (38 U.S. 0, 135).  — Fallows or reply within the set of the form time days have described the set of the communication, even it may fill days will be considered timely.  — Fallows or reply within the set of the form time application, even it may fill days will be communication.  — Fallows or reply within the set of the form time application or the fill days and the set of the communication, even it may fill days and the set of the communication.  — Fallows or reply within the set of the fill days and the set of the communication, even it may (80), 40, 40, 40, 40, 40, 40, 40, 40, 40, 40	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION.  Enterestines of time may be available under the powitistics of 37 CFR 1.36(a). In no event, however, may a riphy be limited filled.  Enterestines of time may be available under the powitistics of 37 CFR 1.36(a). In no event, however, may a riphy be limited filled.  Enterestines of time may be available under the powitistics of 37 CFR 1.36(a). In no event, however, may a riphy be limited for the property of the		Peter Paras, Jr.	1632				
THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of term may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after \$X (it) MONTH'S from the mailing date of this communication.  - False to reply within the set or oxinded period for reply will, by statute, cause the application to become ABANDONED (38 U.S.C. § 133).  - False to reply validable above, the mainiman statutor, period will apply and will extens \$X(t) MONTH'S norm the mailing date of the communication.  - False to reply validable the set or oxinded period for reply will, by statute, cause the application to become ABANDONED (38 U.S.C.§ 133).  - Any reply received by the Office active than three membra after the mainling date of this communication, even if termly filled, may reduce any search planet term adjustment. See \$7 CFR 1.784(b).  - Status  1) Responsive to communication(s) filled on \$20 June 2003.  2a) This action is FINAL.  2b) This action is reply adjustment. See \$7 CFR 1.784(b).  Status  1) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under \$EX parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-72 is/are pending in the application.  4a) Of the above claim(s) 1-30 and 56-70 is/are withdrawn from consideration.  5) Claim(s) 1-55 is/are rejected.  5) Claim(s) 3-55 is/are rejected.  5) Claim(s) 3-55 is/are rejected.  7) Claim(s) 3-55 is/are rejected.  10) The drawing(s) filled on 1 is/are: a) accepted or b) objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filled on 1 is/are: a) accepted or b b objected to by the Examiner.  Application Papers  9) The application for requirement thanks of a claim for foreign priority under 35 U.S.C. § 119(a) (d) or (f).  1) Certified copies of the priority documents have been received in Application No.  1. Certified copies of the priority documents							
1) Responsive to communication(s) filed on 20 June 2003.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-70 is/are pending in the application.  4a) Of the above claim(s) 1-30 and 56-70 is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-55 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. §§ 119 and 120  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some collection from the International Bureau (PCC Rule 17.2(a)).  See the attached detailed Office action for a list of the certified copies not received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received.  13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(a) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  a) The translation of the foreign language provisional application nor in an Application Data Sheet. 37 CFR 1.78.	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
2a) ☐ This action is FINAL.  2b) ☐ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☐ Claim(s) 1-70 is/are pending in the application.  4a) Of the above claim(s) 1-30 and 56-70 is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) is/are allowed.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) is/are subject to restriction and/or election requirement.  Application Papers  9) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. §§ 119 and 120  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No.  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Lette 17.2(a). 7.8.  3) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  Attachment(s)  1) ☐ Notice of References Cited (PTO-882)  2) ☐ Notice of References Cited (PTO-482)  3) ☐ Notice of References Cited (PTO-482)		ne 2 <u>003</u> .					
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12)   Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)   All b)   Some * c)   None of:  1.   Certified copies of the priority documents have been received.  2.   Certified copies of the priority documents have been received in Application No  3.   Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  13)   Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  a)   The translation of the foreign language provisional application has been received.  14)   Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  Attachment(s)  1)   Notice of References Cited (PTO-892)  4)   Interview Summary (PTO-413) Paper No(s)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.  37 CFR 1.78.  a) The translation of the foreign language provisional application has been received.  14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)	Priority under 35 U.S.C. §§ 119 and 120						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413) Paper No(s)  2) Notice of Draffsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)	<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific</li> </ul>						
	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal P					

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Applicant's amendment received on 6/20/03 has been entered. Claims 38, 41, 42, 45, 46 and 54 have been amended. Claims 1-70 are pending. Claims 31-55 are under current consideration.

Applicant's amendment to the specification received on 9/26/03 has been entered.

### Election/Restrictions

Claims 1-30 and 56-70 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the amendment received on 9/18/02.

This application contains claims, 1-30 and 56-70, drawn to an invention nonelected without traverse in the amendment received on 9/18/02. A complete reply to the final rejection must include cancelation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

## Sequence Compliance

The instant application is now in sequence compliance.

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## Information Disclosure Statement

Applicants have indicated that an IDS filed on 3/23/01 has not been considered by the Examiner. In response, the Examiner submits that there is no record of an IDS filed on 3/23/01 in the instant application. Applicants are encouraged to resubmit the IDS and corresponding references for consideration. The Examiner regrets any confusion resulting from the missing IDS.

# Claim Rejections - 35 USC § 112, 1st paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 43-44 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The previous rejection is maintained for the reasons of record advanced on pages 3-5 of the Office action mailed on 12/18/02.

Applicants arguments filed on 6/20/03 have been fully considered but are not found persuasive. Applicants assert claims 43-44 are fully described by the instant specification. Applicants further assert that the sequences of the variants or subsequences need not be disclosed. Applicants point out that specification on page 13 discloses structural elements of the GIP promoter. In addition Applicants argue the

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art is replete with examples of other gut promoters and enhancers such that a skilled artisan would be able to select variants and subsequences of such. See pages 4-8 of the amendment.

In response, the Examiner maintains that Applicants were not in possession of the variants and functional subsequences embraced by the claims. It is further maintained that the evidence of record fails to indicate that any of the claimed variants or subsequences of gut endocrine promoters even have the biological activity of a gut endocrine promoter. While Applicants specification has described various gut endocrine promoters, it is maintained the evidence of record has not described which variants or subsequences of gut endocrine promoters possess the biological activity of a gut endocrine promoter. The specification has disclosed that mutations in the distal and proximal GAT motifs reduced GIP promoter activity. However, the claim breadth embraces more than only GIP promoter variants comprising mutations in the proximal and distal GAT motifs. It is maintained that evidence of record has failed to provide a structural relationship between a gut endocrine promoter and any of the claimed variants or subsequences thereof. As such it is further maintained that one of skill in the art would not recognize that applicant was in possession of the necessary common features or attributes possessed by the functional variants or subsequences embraced by the claims.

Accordingly, the previous rejection is maintained for the reasons of record.

The written description rejection may be overcome if the claims are amended to only read on gut endocrine promoters.

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Claims 31-55 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The previous rejection of claims 31-55 is maintained for the reasons of record advanced on pages 5-14 of the Office action mailed on 12/18/02.

Applicants arguments filed on 6/20/03 have been fully considered but are not found persuasive. Applicants argue the invention can be practiced without employing gene therapy, as the subject embraced by the claims is required to have transformed mucosal cells. Applicants assert the instant specification exemplifies an *in vivo* working model which does not employ gene therapy, as the subject animal is a transgenic mouse. Applicants further assert that Verma and Crystal only discuss general limitations of gene therapy. See pages 9-10 and 12 of the amendment.

In response, the Examiner maintains that the claims as written read on gene therapy. While the claims may be interpreted to read on a transgenic non-human animal the claims also read on gene therapy (*in vivo* and *ex vivo*), as the subject comprises cells transformed with a heterologous polynucleotide. If the claimed invention is intended to be directed to transgenic non-human animals then Applicant is encouraged to amend the claims to that end. In any event, Verma, Crystal, Anderson, Miller, and Deonarain set forth the unpredictability of the gene therapy art. See pages 7-9 of the Office action mailed on 12/18/02. It is maintained absent evidence to the

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contrary that gene therapy is an unpredictable art. Accordingly, the rejection with respect to gene therapy is maintained.

Applicants submit that the Kieffer declaration provides data for another in vivo animal model in which a therapeutic protein (leptin) was produced in an amount sufficient to teat obesity. The Kieffer declaration relates to a mouse model for obesity, the ob/ob mouse. GTC-1pSwitch cells, which produce leptin when treated with RU486, were implanted into the ob/ob mouse and induced to produce leptin. The Kieffer declaration submits that the ob/ob mouse lost weight during RU486 administration as obesity was reduced by leptin secreted by implanted GTC-1 cells. See pages 10-11 of the amendment.

The Kieffer declaration under 37 CFR 1.132 filed 6/20/03 is insufficient to overcome the rejection of claims 31-55 based upon enablement as set forth in the last Office action because: The Kieffer declaration while providing a working example relating to *ex vivo* gene therapy fails to enable the full scope of the claimed methods. The claims are overly broad as they relate to any disease and any therapeutic protein. While the Kieffer declaration provides evidence of treatment of obesity using the ob/ob mouse comprising implanted GC-1pSwitch cells the Kieffer declaration fails to provide evidence of treatment of other diseases embraced by the claims.

Applicants argue the instant specification indicates that non- $\beta$  cells can be used for insulin production, that such cells secrete insulin in response to glucose, and that the insulin produced is properly processed. Applicants submit that such evidence is adequate to refute Yoon et al.

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In response, the Examiner maintains the instant claims read on gene therapy. The specification has discussed production of human insulin by K cells in a transgenic mouse. However, the claims do not appear limited to a transgenic mouse producing human insulin. It is maintained that *in vivo* gene delivery to the gut (K cells) need to be developed for successful treatment of IDDM. See Yoon and Corbett on pages 10-12 of the Office action mailed on 12/18/02.

The aspect of the rejection directed to treatment of obesity is maintained. See pages 12-13 of the Office action mailed on 12/18/02 as well as Buettner et al.

Accordingly, the rejection is maintained for the reasons of record.

#### Conclusion

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner(s) should be directed to Peter Paras, Jr., whose telephone number is 703-

308-8340. The examiner can normally be reached Monday-Friday from 8:30 to 4:30

(Eastern time). The examiner is scheduled to move a new office, on 1/13/2004, having

a new telephone number as follows: 571-272-0732.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Deborah Reynolds, can be reached at 703-305-4051. Papers related to this

application may be submitted by facsimile transmission. Papers should be faxed via the

PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with

the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The

CM1 Official Fax Center number is (703) 872-9306.

Inquiries of a general nature or relating to the status of the application should be

directed to Dianiece Jacobs whose telephone number is (703) 305-3388.

Pete Paray

Peter Paras, Jr.

PETER PARAS
PATENT EXAMINER

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